

application. The computer-readable form in this application is identical with that filed in Application Serial No. 09/032,315 filed on February 27, 1998. In accordance with 37 CFR 1.821(e), please use the only computer readable form filed in that application as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the computer readable form that will be used for the instant application. The content of the attached paper entitled "SEQUENCE LISTING" and of the diskette filed in the parent application is the same. Furthermore, the information contained in the attached "SEQUENCE LISTING" and the ASCII-encoded file is identical to the information in the specification as originally filed. No new matter is added.

It is believed that the claims are in condition for allowance, and a determination to that effect is earnestly solicited.

Date: December 7, 2000

Respectfully submitted,



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Claims as Amended

11. (Amended) A variant of a parent *Polyporus pinsitus* (I) laccase, wherein said variant has an increased oxidation potential and comprises a mutation in a position corresponding to a position in SEQ ID No. 2 selected from the group consisting of:

A390V,P,L,I,F,Y,W;

G392A,V,P,L,I,F,Y,W;

E460D; and combinations of any of the foregoing.

12. (Amended) A variant of a parent *Polyporus pinsitus* (I) laccase, wherein said variant has an altered pH optimum and comprises a mutation in a position corresponding to a position in SEQ ID No. 2 selected from the group consisting of:

E460L,I,F,M,S;

F463L,M; and combinations of any of the foregoing.

13. (Amended) A variant of a parent *Polyporus pinsitus* (I) laccase, wherein said variant has an altered mediator efficiency and comprises a mutation in a position a position in SEQ ID No. 2:

G392A;

A461T,S;

N260Q,Y;

G165K,R; and combinations of any of the foregoing.

14. (Amended) A variant of a parent *Polyporus pinsitus* (I) laccase, wherein said variant has an altered O₂/OH⁻ pathway and comprises a mutation in a position corresponding to a position in SEQ ID No. 2 selected from the group consisting of:

F81D,E;

L112D,E;

A80D,E; and combinations of any of the foregoing.

15. (Amended) A variant of a parent *Myceliophthora thermophila* laccase, wherein said variant has an increased oxidation potential and comprises a mutation in a position corresponding to a position in SEQ ID No. 10 selected from the group consisting of:

G511A,V,P,L,I,F,Y,W;

T428A,V,P,L,I,F,Y,W;

S510A,V,P,L,I,F,Y,W;

D106A,V,P,L,I,F,Y,W;

N109A,V,P,L,I,F,Y,W,Q;

L500I,F,Y,W;

A108V,P,L,I,F,Y,W;

G514A,V,P,L,I,F,Y,W; and combinations of any of the foregoing.

16. (Amended) A variant of a parent *Myceliophthora thermophila* laccase, wherein said variant has an altered pH optimum and comprises a mutation in a position corresponding to a position in SEQ ID No. 10 selected from the group consisting of:

192-193;

234-236;

269;

293-294;

364-365;

372-373;

426-433;

503-513; and combinations of any of the foregoing.

17. (Amended) A variant of a parent *Myceliophthora thermophila* laccase, wherein said variant has an altered mediator efficiency and comprises a mutation in a position corresponding to a position in SEQ ID No. 10 selected from the group consisting of:

185-194;

235;

293-294;

365-373;

427-429;

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